

FIG.1 Related Art

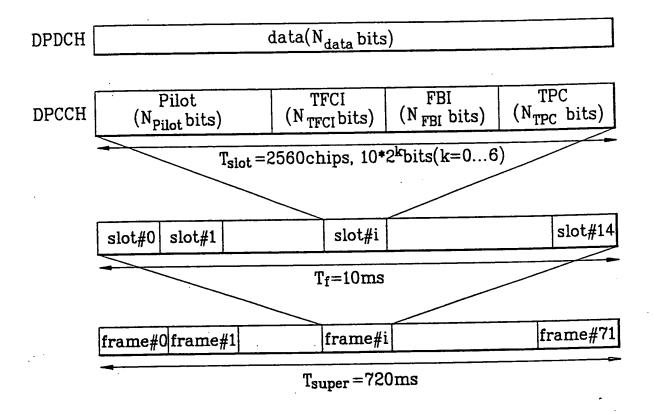


FIG.2 Related Art

S field	D field			
N <sub>F</sub>	ВІ			

FIG.3a

Hadarmad codes of 8 bits	Hadarmad codes of 16 bits
11 0000 0000	$H_{4,0} = 0000 \ 0000 \ 0000 \ 0000$
$H_{3,0} = 0000 0000$	$H_{4,1} = 0101 \ 0101 \ 0101 \ 0101$
TT 0404 0404	$H_{4,2} = 0011 \ 0011 \ 0011 \ 0011$
$H_{3,1} = 0101 \ 0101$	$H_{4,3} = 0110 \ 0110 \ 0110 \ 0110$
TT 0011 0011	H <sub>4,4</sub> =0000 1111 0000 1111
$H_{3,2} = 0011 \ 0011$	H <sub>4,5</sub> =0101 1010 0101 1010
H <sub>3,3</sub> =0110 0110	$H_{4,6} = 0011 \ 1100 \ 0011 \ 1100$
	$H_{4,7} = 0110\ 1001\ 0110\ 1001$
H <sub>3,4</sub> =0000 1111	H <sub>4,8</sub> =0000 0000 1111 1111
	$H_{4,9} = 0101 \ 0101 \ 1010 \ 1010$
II 0101 0101	H <sub>4,10</sub> =0011 0011 1100 1100
$H_{3,5} = 0101 \ 0101$	H <sub>4,11</sub> =0110 0110 1001 1001
II 0011 1100	H <sub>4,12</sub> =0000 1111 1111 0000
$H_{3,6} = 0011 \ 1100$	H <sub>4,13</sub> =0101 1010 1010 0101
77 0440 4004	H <sub>4,14</sub> =0011 1100 1100 0011
$H_{3,7} = 0110 \ 1001$	H <sub>4,15</sub> =0110 1001 1001 0110

FİG.3b

bi-orthogonal codes of 8 bits	bi-orthogonal codes of 16 bits
$B_{3,0} = 0000 0000$	B <sub>4,0</sub> =0000 0000 0000 0000
B <sub>3,1</sub> = 1111 1111	B <sub>4,1</sub> =1111 1111 1111 1111
$B_{3,2} = 0101 \ 0101$	B <sub>4,2</sub> =0101 0101 0101 0101
$B_{3,3} = 1010 \ 1010$	B <sub>4,3</sub> =1010 1010 1010 1010
$B_{3,4} = 0011 \ 0011$	B <sub>4,4</sub> =0011 0011 0011 0011
$B_{3,5} = 1100 \ 1100$	B <sub>4,5</sub> =1100 1100 1100 1100
$B_{3,6} = 0110 \ 0110$	$B_{4,6} = 0110 \ 0110 \ 0110 \ 0110$
B <sub>3,7</sub> =1001 1001	B <sub>4,7</sub> =1001 1001 1001 1001
B <sub>3,8</sub> = 0000 1111	B <sub>4,8</sub> =0000 1111 0000 1111
B <sub>3,9</sub> =1111 0000	B <sub>4,9</sub> =1111 0000 1111 0000
B <sub>3,10</sub> =0101 1010	B <sub>4,10</sub> = 0101 1010 0101 1010
B <sub>3,11</sub> =1010 0101	B <sub>4,11</sub> =1010 0101 1010 0101
B <sub>3,12</sub> =0011 1100	B <sub>4,12</sub> =0011 1100 0011 1100
B <sub>3,13</sub> =1100 0011	B <sub>4,13</sub> =1100 0011 1100 0011
B <sub>3,14</sub> =0110 1001	B <sub>4,14</sub> =0110 1001 0110 1001
B <sub>3,15</sub> =1001 0110	B <sub>4,15</sub> =1001 0110 1001 0110
	B <sub>4,16</sub> = 0000 0000 1111 1111
·	B <sub>4,17</sub> =1111 1111 0000 0000
	B <sub>4,18</sub> =0101 0101 1010 1010
	B <sub>4,19</sub> =1010 1010 0101 0101
	B <sub>4,20</sub> =0011 0011 1100 1100
	B <sub>4,21</sub> = 1100 1100 0011 0011
	B <sub>4,22</sub> =0110 0110 1001 1001
	B <sub>4,23</sub> =1001 1001 0110 0110
	B <sub>4,24</sub> =0000 1111 1111 0000
	B <sub>4,25</sub> =1111 0000 0000 1111
	B <sub>4,26</sub> =0101 1010 1010 0101
	B <sub>4,27</sub> =1010 0101 0101 1010
	B <sub>4,28</sub> =0011 1100 1100 0011
	B <sub>4,29</sub> =1100 0011 0011 1100
	B <sub>4,30</sub> =0110 1001 1001 0110
	B <sub>4,31</sub> = 1001 0110 0110 1001

FIG. 4A

Long(15)	Long(15)

FIG. 4B

Medium(8)	Medium(7)	Medium(8)	Medium(7)
8slots	7slots		
1frame	=15slots		

FIG. 4C

Short	Short	Short	Short	Short	Short	
8slots	8slots	8slots	8slots	8slots	8slots	
1fra	me=15s	slots	1fra	me=15s	lots	

FIG. 5A

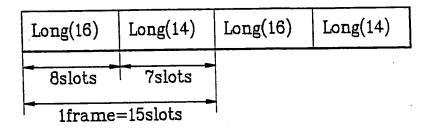


FIG. 5B

Med(8)	Med(8)	Med(8)	Med(6)	Med(8)	<b>Med(8)</b>	<b>Med(8)</b>	Med(6)
4slots	4slots	4slots	3slots	4slots	4slots	4slots	3slots
1frame=15slots					1frame	=15slots	3

FIG. 5C

Short	Short	Short	Short	Short	Short	Short	Short	Short	Short
3slots	3slots	3slots	3slots	3slots	3slots	3slots	3slots	3slots	3slots
1frame=15slots					1fra	ame=15	slots		